

Question 1: A random variable X has a probability density function

- The function $f(x)$ is defined for $x \geq 0$ and is given by $f(x) = kx^2 e^{-x}$.
- The function $f(x)$ is zero for $x < 0$.
- The function $f(x)$ is continuous at $x = 0$.
- The function $f(x)$ is differentiable at $x = 0$.
- The function $f(x)$ is twice differentiable at $x = 0$.
- The function $f(x)$ is three times differentiable at $x = 0$.

Find the value of k such that $f(x)$ is a probability density function.

Key Concepts	Formulae
• The function $f(x)$ is a probability density function if $f(x) \geq 0$ and $\int_{-\infty}^{\infty} f(x) dx = 1$. • The function $f(x)$ is continuous at $x = 0$ if $\lim_{x \rightarrow 0^-} f(x) = \lim_{x \rightarrow 0^+} f(x) = f(0)$. • The function $f(x)$ is differentiable at $x = 0$ if $\lim_{h \rightarrow 0} \frac{f(0+h) - f(0)}{h} = \lim_{h \rightarrow 0} \frac{f(h) - f(0)}{h}$.	• The function $f(x) = kx^2 e^{-x}$ is a probability density function if $k \geq 0$ and $\int_{-\infty}^{\infty} f(x) dx = 1$. • The function $f(x) = kx^2 e^{-x}$ is continuous at $x = 0$ if $\lim_{x \rightarrow 0^-} f(x) = \lim_{x \rightarrow 0^+} f(x) = f(0)$. • The function $f(x) = kx^2 e^{-x}$ is differentiable at $x = 0$ if $\lim_{h \rightarrow 0} \frac{f(0+h) - f(0)}{h} = \lim_{h \rightarrow 0} \frac{f(h) - f(0)}{h}$.

The function $f(x) = kx^2 e^{-x}$ is a probability density function if $k \geq 0$ and $\int_{-\infty}^{\infty} f(x) dx = 1$. The function $f(x)$ is continuous at $x = 0$ if $\lim_{x \rightarrow 0^-} f(x) = \lim_{x \rightarrow 0^+} f(x) = f(0)$. The function $f(x)$ is differentiable at $x = 0$ if $\lim_{h \rightarrow 0} \frac{f(0+h) - f(0)}{h} = \lim_{h \rightarrow 0} \frac{f(h) - f(0)}{h}$.

Question 2: A random variable X has a probability density function

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